FITOREMEDIASI LOGAM BERAT (Cu, Cd, dan Ni) DARI LIMBAH CAIR LABORATORIUM KIMIA OLEH KIAMBANG (*Salvinia molesta* D. S. Mitchel)

Phytoremediation of Heavy Metals (Cu, Ni, and Cd) fromWastewater Chemical Laboratory by Giant Salvinia *(Salvinia molesta* D. S. Mitchel)

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The objectives of this study were: firstly, to determine the effectiveness of Copper (Cu), Cadmium (Cd), and Nickel (Ni) absorption by various population densities of Giant Salvinia (S.molesta). Secondly, to determine the optimum of Giant Salvinia population densities on the Cu, Cd, and Ni absorption. Data were analyzed by Randomized Completely Block Design (RCBD), 6 treatments and 4 replications. As the treatments are various percentage surface area coverage of the bucket by giant salvinia, which are : 0% (control, no salvinia), 12,5%, 25%, 37,5%, 50%, 62,5%, respectively. To test the differences between treatment means, the Honestly Significant of Differences (HSD) were used using 5% level of significant. The result of this study show that the effectiveness of copper (Cu), cadmium (Cd), and nickel (Ni) absorption form chemical laboratory wastewater is 48,5%(Cu), 51,53%(Cd), and 92,52%(Ni) occurred in 12 day at 62,5% Giant Salvinia coverage.

Keywords :Chemichal Laboratory wastewater, Giant salvinia, Heavy metal.